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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for producing acetic acid, comprising the steps of:
continuously reacting methanol with carbon monoxide in the presence of a
homogeneous rhodium catalyst, an iodide salt, methyl iodide, methyl acetate, and water; and
thereby producing acetic acid at a production rate of 11 mol/L·hr or more while
keeping the acetaldehyde content of a reaction mixture to 500 ppm or less,

wherein the reaction is carried out at a carbon monoxide partial pressure in a gaseous phase of a reactor of 1.05 MPa or more and at a methyl acetate content of the reaction mixture of 2 percent by weight or more to thereby keep the production rate of acetaldehyde to 1/1500 or less of the production rate of acetic acid.

- 2. (Original) The method according to Claim 1, wherein the reaction is carried out at a hydrogen partial pressure in the gaseous phase of the reactor of 100 kPa or less.
- 3. (Original) The method according to Claim 1, wherein the reaction is carried out at a hydrogen partial pressure in the gaseous phase of the reactor of 70 kPa or less.
- 4. (Original) The method according to Claim 1, wherein the reaction is carried out at a hydrogen partial pressure in the gaseous phase of the reactor of 70 kPa or less and a methyl acetate content of the reaction mixture of 3.1 percent by weight or more.
- 5. (Original) The method according to any one of Claims 1 to 4, wherein the reaction is carried out at a water content of the reaction mixture of 3 percent by weight or less.
- 6. (Previously presented) The method according to Claim 1, wherein acetic acid is produced at a production rate of 15 mol/L·hr or more.

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- 7. (Previously Presented) The method according to Claim 1, wherein the production rate of acetaldehyde is kept to 1/2500 or less of the production rate of acetic acid.
- 8. (Previously Presented) The method according to Claim 1, further comprising a purification process which comprises the steps of:

separating the reaction mixture into acetic acid and a process mixture comprising residual components and recovering acetic acid;

separating and removing carbonyl impurities from the process mixture to give a residual process mixture; and

recycling the residual process mixture to the reactor.

- 9. (Previously presented) The method according to Claim 1, further comprising a purification process which comprises the steps of:
- (A) separating the reaction mixture into a volatile component and a low-volatile component by distillation, the volatile component comprising acetic acid, water, methyl acetate, and methyl iodide, and the low-volatile component comprising the rhodium catalyst and the iodide salt;
- (B) separating the volatile component into a high-boiling component and a low-boiling component by distillation, the high-boiling component comprising acetic acid, and the low-boiling component comprising water, methyl acetate, and methyl iodide;
 - (C) recycling the low-volatile component to the reactor;
- (D) separating and removing carbonyl impurities from the low-boiling component obtained in Step (B) to yield a residual component;
 - (E) recycling the residual component obtained in Step (D) to the reactor;
- (F) separating acetic acid from the high-boiling component obtained in Step (B) by distillation; and
- (G) treating the acetic acid obtained in Step (F) with a silver- or mercury-exchanged cation exchange resin.

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10. (Original) The method according to Claim 9, wherein Steps (B), (D), and (F) are carried out using a total of three or less distillation columns.

11. (Canceled)

12. (New) A method for producing acetic acid, comprising the steps of:

continuously reacting methanol with carbon monoxide in the presence of a rhodium catalyst which is a rhodium complex soluble in the reaction mixture under reaction conditions or can form the rhodium complex, an iodide salt, methyl iodide, methyl acetate, and water; and

thereby producing acetic acid at a production rate of 11 mol/L·hr or more while keeping the acetaldehyde content of a reaction mixture to 500 ppm or less,

wherein the reaction is carried out at a carbon monoxide partial pressure in a gaseous phase of a reactor of 1.05 MPa or more and at a methyl acetate content of the reaction mixture of 2 percent by weight or more to thereby keep the production rate of acetaldehyde to 1/1500 or less of the production rate of acetic acid.

13. (New) The method according to Claim 1, wherein the reaction is carried out at a hydrogen partial pressure in the gaseous phase of the reactor of 30-100 kPa.